## AMENDMENTS TO THE SPECIFICATION

Please amend the paragraph at page 34, lines 12-14 to read as follows:

**Proposition 6.1.** *For any real* $n \times n$ *matrix A of determinant* $\pm 1$*, there is a bijection* $\psi: A\mathbb{Z}^n \to \mathbb{Z}^n$ *which is optimal in the sense that* $\sup_{x \in A\mathbb{Z}^n} \|\psi x - x\|$ *is minimal over all such bijections.*

Please amend the paragraph at page 45, lines 11-18 to read as follows:

A number of the calculations presented earlier can be applied without change in the present context, given suitable definitions. In particular, we define the norm $\|A\|$ of a signal transformation $A$ (or the norm $\|A(z)\|$ of its associated $z$-transform matrix) to be the supremum of $\|A x\| / \|x\|$ over all nonzero bounded inputs x (where $\|x\|$ is defined as in the preceding section). Then, if $A = A_1 A_2 \cdots A_k$ where each $A_i$ can be approximated by an integer mapping $\varphi_i$ with error bound $C_i$, then $A$ can be approximated by the composition of these integer mappings with error bound

$$(9.1) \quad C_1 + \|A_1\| C_2 + \|A_1\| \|A_2\| C_3 + \cdots + \|A_1\| \|A_2\| \cdots \|A_{k-1}\| C_k.$$

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